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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-01-10-31** **Date: 11-11-19**

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 08-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 09-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	–
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-10-31** **Date: 11-11-19**
Project Name	:	Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/000160/2019-20
Date of Receipt	:	08-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-01-10-31** **Date: 11-11-19**

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 08-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 08-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-01-10-31** **Date: 20-11-19**

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 16-11-19

Sample Type /Size : Precast Cover Slab(100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 16/11/2019

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.5	1.128	4475	82.7	18.5	17.2	21.5
3	Cover Slab-3	75.51	100.51	1.114	4477	81.5	18.2	16.9	21.2

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2020-01-10-31**

Date: 25-11-19

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 21-11-19

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 21/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-10-31** **Date: 22/11/2019**

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 18-11-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/11/2019	22/11/2019	151.43 X 150.62 X 151.19	22810	8.364	290.7	12.7	12.6
2	PCC	M15	15/11/2019	22/11/2019	149.18 X 149.03 X 149.05	22232	8.082	275.8	12.4	
3	PCC	M15	15/11/2019	22/11/2019	149.72 X 151.10 X 150.16	22622	8.630	288.9	12.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-10-31**

Date: 22/11/2019

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 18-11-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/11/2019	22/11/2019	149.34 X 151.17 X 151.73	22575	8.364	272.1	12.1	12.5
2	PCC	M15	15/11/2019	22/11/2019	149.52 X 149.68 X 149.56	22381	8.082	280.4	12.5	
3	PCC	M15	15/11/2019	22/11/2019	150.64 X 149.67 X 149.51	22546	8.630	289.6	12.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-10-31** **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.62 X 151.61 X 149.32	22986	8.976	435.7	19.0	18.6
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.38 X 149.59 X 150.65	22346	8.846	404.0	18.1	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.87 X 151.78 X 151.82	22899	8.269	429.7	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-10-31** **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.82 X 150.24 X 149.27	22510	8.976	423.7	18.8	18.7
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	152.00 X 149.41 X 151.73	22710	8.846	422.9	18.6	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.97 X 150.85 X 150.51	22623	8.269	419.4	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-31 **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.72 X 150.39 X 149.10	22667	8.976	429.8	19.0	18.6
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.69 X 151.52 X 150.33	22833	8.846	428.5	18.8	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.49 X 150.58 X 149.42	22660	8.269	412.8	18.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-31 **Date: 29/11/2019**

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	151.15 X 150.08 X 149.15	22685	8.976	416.7	18.4	18.7
2	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	151.66 X 151.76 X 149.68	23015	8.846	435.8	18.9	
3	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	151.77 X 150.18 X 150.79	22793	8.269	425.4	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-31

Date: 29/11/2019

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	151.71 X 151.12 X 149.68	22926	8.976	413.4	18.0	18.2
2	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	149.45 X 149.96 X 151.27	22412	8.846	407.2	18.2	
3	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	150.57 X 149.82 X 149.04	22557	8.269	414.6	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-31 **Date: 29/11/2019**

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	151.07 X 149.24 X 149.46	22546	8.976	427.4	19.0	18.7
2	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	149.48 X 150.35 X 150.72	22474	8.846	421.4	18.8	
3	Drain Side Wall Concrete	M20	22/11/2019	29/11/2019	150.98 X 149.34 X 150.45	22548	8.269	412.3	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-31

Date: 03/12/2019

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 28-11-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	26/11/2019	03/12/2019	151.85 X 150.45 X 150.72	22845	8.976	431.3	18.9	18.7
2	Culvert Bottom Slab Concrete	M20	26/11/2019	03/12/2019	150.52 X 150.21 X 151.01	22609	8.846	423.2	18.7	
3	Culvert Bottom Slab Concrete	M20	26/11/2019	03/12/2019	149.07 X 151.76 X 149.97	22622	8.269	415.2	18.4	

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-10-31**

Date: 10/12/2019

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 05-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.85 X 150.88 X 150.11	22610	8.286	586.3	25.9	25.8
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.83 X 149.14 X 150.24	22345	8.614	594.0	26.6	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.59 X 151.29 X 150.14	22934	8.708	572.2	24.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-31

Date: 10/12/2019

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 05-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.96 X 151.49 X 150.72	23019	8.286	593.0	25.8	25.5
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.32 X 149.86 X 150.94	22676	8.614	589.8	26.0	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.25 X 149.96 X 149.90	22382	8.708	552.6	24.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2020-01-10-31

Date: 10/12/2019

Project Name : Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/000160/2019-20

Date of Receipt : 05-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.76 X 150.23 X 151.98	22497	8.286	567.3	25.2	25.4
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.11 X 150.19 X 150.90	22394	8.614	590.9	26.4	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.61 X 150.73 X 150.37	22852	8.708	561.1	24.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/12/2019

Lab ID	:	CP-2020-01-10-31
Project Name	:	Improvements to Roads and Drains at Yelahanka Old Town areas Gandhinagara SC/ST Areas and surrounding areas in Ward No. 01 Yelahanka Sub division.
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/000160/2019-20
Date of Receipt	:	05-12-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	151.64 X 150.99 X 150.03	22896	8.104	762.8	33.3	33.1
2	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.77 X 151.56 X 151.65	22700	8.901	738.7	32.5	
3	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.36 X 151.19 X 149.80	22733	8.069	759.3	33.4	

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